



Installation supplement for  
European Integrated Systems, Ltd.  
Enhanced BMW *Bluetooth*®  
Interface

**Vehicles covered in this document:**

1/2000 – 2/2002 5 Series Sedans

Version r1.3

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Thank you for purchasing our version of BMW's *Bluetooth* wireless technology ULF interface. This interface is designed to provide full integration of your BMW's built in mobile phone capabilities and your *Bluetooth* enabled mobile phone. Below is a list of components that you should have received from us or have purchased separately. This document is designed to be a supplement to the BMW ULF Installation manual available online. Hardcopy of the installation manual and owner's guides are shipped with the Installation kit and cradle option only and are available online otherwise.

You will need the following components to complete the installation:

- BMW ULF Modified interface module
- Wiring harness (custom for your car)
- BMW Installation kit (optional)
- BMW Microphone
- BMW ULF Installation guide
- BMW User manuals
- Installation bracket (optional and available separately)
- SES Jumper plug (if required)

This kit provides integration of a *Bluetooth* enabled phone with the car's stereo for radio mute and use of the built in BMW cell phone speakers. The BMW microphone is also utilized. The steering wheel buttons work for answering a call and hanging up, as well as activating voice dial and volume control during a call. The phone can be set to automatically connect with the car upon starting the car. Full support of the BMW OEM Bluetooth phone interface is offered through this product.

Everything is mounted in the trunk (except the microphone of course) and there are no wires to run. No wires to cut and no re-programming at the dealer required. It will just work!

If you purchased the cradle/installation option, please refer to the enclosed BMW Installation guide for installation of this part in your armrest.

## Section 2. Installation of the BMW Microphone

Installation of the BMW microphone requires removal of the overhead console cover so as to access the wiring for the mic. Below are pictures of the steps for removal of the cover.

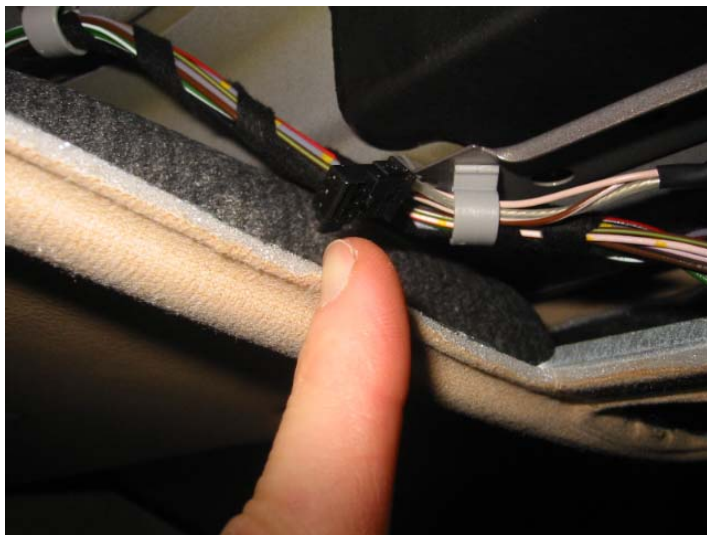


Gently pry apart the overhead light panel from the back of the panel using a small screwdriver or other suitable tool (butter knife).





Using just finger pressure, pull down the cover plate that has the microphone grill in it.



Locate the correct three conductor wire. It will be a black connector and should have one wire that is clear in color. Detach the wire from the cable holders so that you have enough wire to reach where the mic goes. Connect the microphone.



Here is the mic as you are ready to press it into the grill. Note that the arrow should point toward the **front** of the vehicle.

Reinstall the cover and light panel in the reverse order of removal.

### Section 3. Installation of the ULF Module and Harness

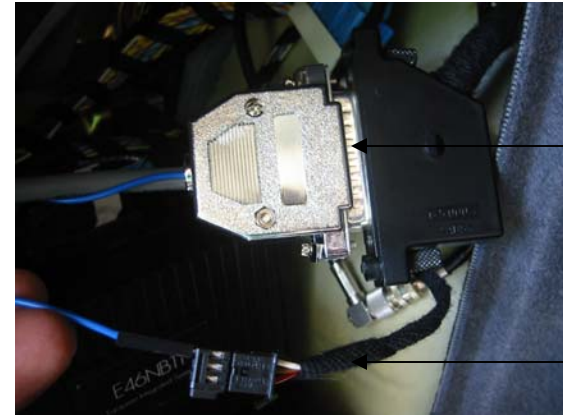
Lets get to the trunk and locate the cabling you will need to have access to. On the left side of the trunk is a door that you would use to change CDs in the CD changer. You may need a small flathead screwdriver to remove the clips so as to pull back the cover panel forward of the door to gain access to the cabling (wrapped in black foam). Vehicle pictured is a 2000 528 w/o DSP w/o NAV.

#### Drivers Side trunk – attach DB25 connector

Just pop open the door for access to the BMW CD changer to install this. You may wish to add a tie wrap to ensure permanent attachment.

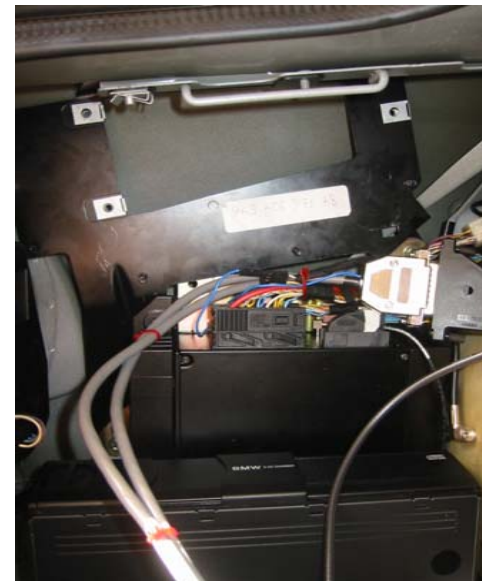


Look for harness(s) in this area.

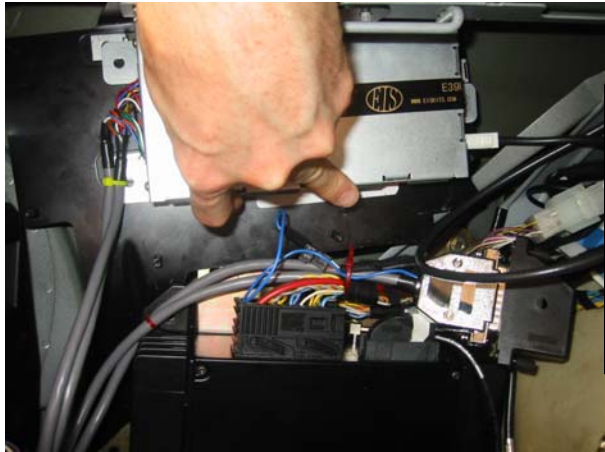


Connect cable and blue wire to pin 3 (white/yel) of 3 conductor cable. Note that you want a white and yellow connector NOT yellow/gray. If you have a CD changer then there will be no confusion as the yellow/gray wire is used for that.

There is sometimes more than one 3 conductor cable – please ensure that the color specified is in the connector – if not, please contact us.



Bracket mounted in a 2000 E39 with DSP and no NAV. You will need to loosen and/or remove a number of M5 bolts (using a 8mm socket) on the radio/amp module and the CD changer if so equipped. The bracket does not come with the 3 5mm Metric bolts and 5 nuts that you will need for installation.

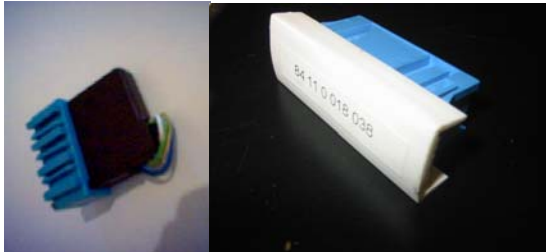


Secure ULF  
(location is at  
customer's  
discretion)  
Example shown  
is using bracket  
84 13 6 924 546

The cabling is semi-permanently attached to the BMW ULF Module – we do not recommend removing this Harness.

**NOTE:**

Please be aware that some E39 5 series cars were delivered without what is called an “SES jumper plug.” This is a blue plug that attaches to the blue 26pin connector in the same area as the 25 pin black connector you just found for using our interface. This plug is necessary for your kit to function. It is BMW part number: 84110018038 and it costs around \$16.00. It will look like one of these:



Attachment of the Bluetooth antenna to the ULF module should be obvious – attach the white connector to the ULF and the black connector to the antenna. Placement of this antenna is at your discretion but we suggest mounting it as high and forward as possible. In this picture it is mounted upside down and forward of the ULF modules location.

## Section 4: Configuration and testing

**PAIRING:** You have completed the hard part, now lets check to make sure it all works and “pair” your phone to your car.

1. Lets go ahead and verify that the system is working thus far. With everything connected in the trunk, turn on the ignition (do not start the car). The red led on your radio (MID) should come on. If you press the TEL button, the message ACTIVATE PHONE should be displayed on the radio display. If so, you are ready to move forward. Turn you ignition back off.



2. First, get out the manual for your telephone – we can't begin to list all procedures for the plethora of Bluetooth compatible phones out there.
3. You will need to enable BT (Bluetooth) on your phone.
4. Get your phone on the page that encompasses “pairing with a handsfree or headset device.”
5. If you purchased the optional BMW installation kit and have installed the cradle/pairing button in the armrest then follow the pairing instructions that came with the installation kit.

Sections #6 and 7 are designed to aid in the pairing process for those that chose not to install the cradle. If you purchased a cradle, refer to the BMW owners manual and skip to #8.

6. Find the toggle switch on the side of the ULF module – you will see that there are two settings, PAIR and NORM.
7. With the ignition off. Set this switch to PAIR. Then, go back to the drivers seat and turn on the ignition (make sure you have set the parking brake and do not start the car). Ok, now go back to the toggle switch and

set it to NORM. Upon returning to the drivers seat the three leds should be flashing. If so, you are ready to begin the pairing process on your phone.



8. Your phone should find a device called BMW ULF, select this and enter the passkey that is located on the ULF unit itself. After pairing, connect to the BMW ULF from the phone (you will only need to do this once) after this, the phone and car will automatically connect at startup)
9. Once this is complete, your phone and the car are linked. The phone and the car will automatically connect and you will be ready to place and receive calls. There are likely other options for your specific phone, including the choice whether to “pair” automatically. Review these and set them to your liking – it may take a bit of trial and error to determine the best settings for your needs.

You are now set to go. Note that phonebook upload does not occur immediately, it can take a while for this to occur and requires that the phone and car be connected for a while to complete the upload (up to 20 minutes for some phones). Not all phones support automatic phonebook upload and your phone may require manual transfer. There are a number of inherent factors and variables in phone/BT compatibility, voice recognition ability, audio quality, and RF interference for which we cannot be held responsible; nor to which do we make any guarantee.

## Section 5: Warranty Information

We stand behind every module we sell and we want you to feel that you have made a sound decision to purchase from us.

We are grateful that you have taken one further step to safer driving and encourage you to remember that your first priority is always to driving your car, being attentive, and being safe.

We warrant this product against defects in material and workmanship as follows:

Your module is backed by our 90 day performance warranty – this includes repair or replacement for failures resulting from defects in manufacture. If, upon return of product, it is determined to be defective, European Integrated Systems, Ltd. (“EIS”) will repair or replace the Product at no charge during the warranty period.

EIS will also provide free software upgrades if they become available during your warranty period.

This warranty does not cover cosmetic damage or damage due to improper installation, to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product.

We also provide you with the opportunity to return your kit within 30 days if the product fails to do what we say it will do. Refund of the purchase price less 5% restocking charge will be refunded.

We cannot be held responsible for failures resulting from installation errors or modifications.

To the extent permitted by law, all warranties are waived, other than the warranty stated above. The warranties of merchantability and fitness for a particular purpose are waived to the extent provided by law.

## Product Disclaimer

Repair or replacement as provided under the warranty (above) is the exclusive remedy of the consumer. EIS shall not be liable for any incidental damage, including but not limited to damage, real or perceived, to your vehicle due to installation and use of this product, or consequential damages for breach of any expressed or implied warranty on this product. Except to the extent prohibited by applicable law. To the extent permitted by law, all warranties are waived, other than the warranty stated above. The warranties of merchantability and fitness for a particular purpose are waived to the extent provided by law.

We cannot guarantee that you will have perfect success in voice dial recognition – this is a function of not only the BT module but also the phone itself and the conditions (background noise). Road and wind noise play a factor as well.